



Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

EPA Region 5 Records Ctr.



298165

Waste
Check if
Applicable

APPLICATION FOR PERMIT
TO DEVELOP A SOLID WASTE
MANAGEMENT SITE

☒ Storage
☐ Transfer
☒ Processing
☒ Recovery
☐ Incineration
☐ Other

In Accordance With The Environmental Protection Act

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as regarding a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act.

APPLICATION MUST BE SUBMITTED IN DUPLICATE

RECEIVED

NOV 19 1980

PART I - APPLICANT INFORMATION

E.P.A. — D.L.P.C.
STATE OF ILLINOIS

A. Site Identification

1. Name of Applicant John M. Suarez
(Person responsible for operation)

2. Address of Applicant P. O. Box 187
(Street, P.O. Box, or R. R. #)

Alton Illinois 62002
City State Zip Code

Telephone: (618) 254-4381
(Area Code) (Number)

3. Name of Land Owner Chemetco, Inc.
(If same as above, so indicate)

4. Address of Land Owner P. O. Box 187
(Street, P.O. Box, or R. R. #)

Alton Illinois 62002
City State Zip Code

STPR 5/15/79
LPC-7 Rev. 5/79

Notification Sent
Per E. P. A. Act §39 (c)

NOV 20 1980

DL/NPC

5. Name of Site Chemetco, Inc.

6. Address of Site P. O. Box 187
(Street, P.O. Box, or R. R. #)

Alton Illinois 62002
City State Zip Code

Madison County Chouteau Township

7. Land ownership (Check Applicable Boxes)

() Presently Owned by Applicant () To be Leased by Applicant For Years

() To Be Purchased by Applicant () Years of Lease Remaining:

Termination date of lease

Operated by: Ill. Corporation (X) Partnership () Government ()
Individual () Other ()

B. SITE BACKGROUND (Check Applicable Box or Boxes)

8. (X) This is an existing operation begun Nov. (mo.) 1969 (yr.)

() this is a proposed operation.

() This is a proposed extension of an existing adjacent
operation:

(X) Illinois E.P.A. Permit No. 119801 AAC :

() No Illinois E.P.A. Permit.

PART II - LOCATION INFORMATION

A. ZONING AND LOCAL REQUIREMENTS

9. Present zoning classification of site Industrial

10. Does present zoning of site allow the proposed usage?

(X) Yes () No.

11. Restrictions (if any) None

12. Check applicable boxes which describe the use of adjacent properties surrounding site.

	Residential	Commercial	Industrial	Agricultural	Others*
a. North	()	()	()	(x)	()
b. East	()	()	()	(x)	()
c. South	()	()	()	(x)	()
d. West	()	()	()	(x)	()

*SPECIFY USE CLASSIFICATION _____

13. a. Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body?
() Yes () No If yes, List below. _____

Refer to Exhibit "G" _____

- b. Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction?
() Yes () No N/A

- c. If the answer to (b) is yes, include photocopies of supporting documents.

B. LOCATION

14. Attach a copy of the United States Geologic Survey (U.S.G.S.) topographic quadrangle map of the area which contains the site. (7.5 minute quadrangle, if published).

SEE EXHIBIT I

Quadrangle Map Provided: _____
Name _____ Date _____

15. a. Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site.
b. Provide a legal description of the site. (Typewritten on attached sheet.)

41 Acres in NE Quarter, SE Quarter, _____ Quarter,
of Section 16, Township 4N,
Range 9W, _____ Third P.M.

SEE EXHIBITS 2, 10

16. General characteristic: (Flood Plain, Hillside, Field, Strip Mine, Quarry, Gully, Gravel Pit, Swamp, etc.)
Briefly describe: _____

SEE EXHIBIT 3

17. Plot the following information on the U.S.G.S. quadrangle topographic map, if within the site or adjacent to the outer perimeter of facility:
- a. Wells (domestic, industrial, etc.) SEE EXHIBIT 4
 - b. Public water sources (wells, stream, etc.)
 - c. Residences or residential areas, commercial facilities, sewage treatment facilities, industries, institutions, etc.
 - d. Other treatment facilities not shown on topographic map such as diverted steams, strip mines, ponds, etc.

If scale of quadrangle map is not sufficient, show the above items on a separate topographic map (See Part IV - A - 23).

NOT REQUIRED - PART III - SITE CHARACTERISTICS

To Be Completed If Land Disposal Of Waste On Site Is Requested

A. GEOLOGY - HYDROLOGY

NOTE: The instructions for this Part of the Application should be read carefully prior to initiating the data-gathering program for the site.

Provide subsurface information in comprehensive detail, sufficient to allow thorough evaluation of the hydrologic and geologic conditions beneath and surrounding the site. This data must fully describe the hydrogeologic interrelationships of the landfill facility, local ground waters, and surface waters. All information requested in sections 18 through 22 should be integrated and presented as a detailed hydrogeologic report.

B. GEOLOGY

GENERAL GEOLOGIC SETTING

18. Provide a brief description of the general geography of the region in which the site is located, and a summary of the hydrogeologic conditions typical of that portion of Illinois.

TYPE AND EXTENT OF SUBSURFACE MATERIALS

19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained.
20. Include the following information regarding the bedrock, if encountered during the boring program:
 - a. Depth(s) to bedrock.
 - b. Lithology (physical character) and hydrologic characteristics of the bedrock formation.
 - c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site.

C. MATERIALS CLASSIFICATION AND ANALYSIS

21. Provide the following information for samples taken during the boring operation:
 - a. textural classification (U.S.D.A. system)
 - b. particle size distribution curves for representative samples
 - c. coefficient of permeability - based on field and (or) laboratory determinations
 - d. ion-exchange capacity and ability to absorb and "fix" heavy metal ions

D. HYDROLOGY

22. Provide the following information regarding the hydrologic flow system in the area of the site:
 - a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized.
 - b. Rate(s) and direction(s) of ground-water movement.
 - c. A narrative description (with diagrams) of the design and installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points.
 - d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report.
 - e. An outline of the procedures, devices, and personnel to be employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.

PART IV - CONSTRUCTION PLANS
AND SPECIFICATIONS

A. SITE DEVELOPMENT PLAN

- SEE EXHIBIT 5 23. Provide a detailed topographic map of the existing site (Scale 1" = 200' or larger) showing 5-foot contour intervals on sites (or portions thereof) where the relief exceeds 20 feet, and 2-foot contour intervals on sites (or portions thereof) having less than 20 feet of relief. This map should show all buildings, ponds, streams, wooded areas, bedrock outcrops, underground and overhead utilities, roads, fences, culverts, drainage ditches, drain tiles, easements, streets, any other item of significance, including legal boundaries.
- SEE EXHIBIT 6 Show the location and elevation of borings as described in Part III - 19, 20.
- SEE EXHIBIT "E" 24. Provide a separate map, at the same scale as that above, of the developed site showing the following:
- a. All changes in topography dictated by design and operational factors.
 - b. All surface features (as specified in IV - A - 23) both unaltered and modified, and installed as part of the facility. This shall include all new construction with location plans for berms, dikes, dams, earth barriers, surface drainage ditches, drainage devices, (culverts, tiles), fencing, access roads, entrance(s), utilities, buildings, sanitary facilities, monitoring well(s), streams, ponds, mines, and any other special construction as may be required to comply with the provisions of the Rules and Regulations.
 - c. Earth barriers, berms, dikes and other barriers, including essential dimensions of each.
25. Provide a topographic map of the closed and covered site showing final contours, with an interval of 5 feet if relief is greater than 20 feet, and intervals of 2 feet if relief is less than 20 feet.
26. Provide plan views (Scale 1" = 200') and cross sections of the leachate collection and treatment system, if utilized, including the following information:
- N/A a. Type, location and construction of subsurface collection system, and all attendant devices.
 - N/A b. Location, dimensions, volume, and surface elevation of treatment lagoon(s), if used.
 - N/A c. Detailed written narrative of the method and processes of the treatment system, and program for monitoring the performance and effectiveness of the treatment system.
 - N/A d. Discharge point(s) of effluent.

B. SCHEDULE OF CONSTRUCTION

- N/A 27. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be developed. Estimate the date of beginning and ending of each phase of construction and operation.

C. CONSTRUCTION REQUIREMENTS

- N/A 28. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for:
- a. Prevention of surface-water pollution.
 - b. Control of gas migration.
 - c. Elimination of flood hazard, if any.
 - d. Employee facilities.
 - f. Measuring quantity of waste delivered to the site.

P A R T V - O P E R A T I N G P L A N

A. SOURCE AND VOLUME

29. Indicate the estimated quantity of each of the following sources and types of waste the facility will handle during each day of operations; each week of operation; each year of operation. Specify any additional information regarding refuse source and quantity.

<u>SOURCE</u>	<u>TYPE</u>	<u>DAILY QUAN.</u>	<u>WEEKLY QUAN.</u>	<u>ANNUAL QUAN.</u>
a. Residential				
b. Commercial				
	<u>Metal slags</u>	<u>10 tons</u>	<u>60 tons</u>	<u>3000 tons</u>
c. Industrial	<u>Metal skimmings</u>	<u>10 tons</u>	<u>60 tons</u>	<u>3000 tons</u>
d. Agricultural				
e. Other -Industrial				
(Describe)	<u>Metal residues</u>	<u>10 tons</u>	<u>60 tons</u>	<u>3000 tons</u>

B. OPERATING REQUIREMENTS

30. Attach a typewritten description of provisions for:
- a. Personnel for supervision and operation - SEE EXHIBIT 13
 - b. Traffic control - SEE EXHIBIT 13

- c. Designation of unloading area - SEE EXHIBIT 4
- d. Dust control - SEE EXHIBIT 12
- e. Odor control - N/A
- f. Management of surface water - N/A
- g. Erosion control - N/A
- h. Monitoring program for gas - SEE EXHIBIT 11
- i. Reuse and recycling operations - SEE EXHIBIT 7

31. Provide a list of equipment to be used for the operation:

ITEMS	MODEL NUMBER	NO. OF UNITS IN OPERATION	DESCRIPTION
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SEE EXHIBIT 7

PART VI - NOTICE / LAND USE

32. In order that notice of intent be sent to those affected by this application, you shall provide these names and addresses to the Agency:

SEE EXHIBITS
14 & 14A

- a) State's Attorney of the county in which the site is located.
- b) Chairman of the County Board of the county in which the site is located.
- c) Each member of the General Assembly from the Legislative district in which the site is located. (Three Representatives, One Senator)

- d) The clerk of each municipality, any portion of which is within three miles of the site. - SEE EXHIBIT 14
- e) Adjacent landowners to the proposed site. - SEE EXHIBIT 14A
- f) Local zoning and planning agencies. - SEE EXHIBIT 14

33. Provide the following documentary evidence sufficient to show:

- a) That the facility is located so as to minimize scenic blight, and to avoid damage to archaeological and/or historic sites and areas of significant natural beauty; - SEE EXHIBITS 3, 8, 9
- b) That the facility is located so as to avoid any hazards to public health and safety and to minimize any offenses to the senses of persons residing, working, traveling, and/or in any way spending periods of time in the immediate vicinity. Immediate vicinity is here defined to mean a one-mile radius zone adjacent to the boundary of the site; - SEE EXHIBITS 3, 8, 9
- c) Taking into consideration the character of the area involved, including the character of surrounding land uses and the trend of development, as well as local comprehensive plans and zoning ordinances, that the facility is located so as to minimize incompatibility with the character of the surrounding area. - SEE EXHIBITS 3, 8, 9
- d) That the facility is located so as to avoid causing substantial depreciation of nearby property (taking into consideration, where possible, any mitigation caused by the short proposed life of the site and end use); - SEE EXHIBITS 3, 8, 9
- e) That any detriments caused by removal of the site from its former use are out-weighed by the need in the area for such a facility at this location; - SEE EXHIBITS 3, 8, 9
- f) That the facility is located so as to avoid a continued adverse effect on existing air and water quality; and - SEE EXHIBITS 3, 8, 9 and EPA OPERATING PERMITS
- g) Taking into consideration geological and hydrological factors, the location of the site in relating to sources of solid waste and accessibility to transportation modes, and the technical feasibility and economic reasonableness of disposing of solid waste at the proposed location, that the facility is suited for its intended use. - N/A
- h) That access roads and bridges are not limited to preclude necessary vehicular traffic (i.e. proposed size and weight limits). - SEE EXHIBITS 3, 8, 9

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

Signature of Applicant: John Suarez 11-18-80
Date

Attest: Deputy C. [Signature] 11/18/80
Date

Signature of Engineer: Walter O. Blotz 11/18/80

Illinois Reg. No: 62-32817

Attest: Deputy C. [Signature] 11/18/80
Date

Signature of Landowner(s): John Suarez 11-18-80
Date

Attest: Deputy C. [Signature] 11/18/80
Date

Engineer (Seal)

Signature of other person, technical and non-technical, who has supplied data contained in the submittal.

William L. Montland 11/18/80
Signature Date

ENGINEER
Reg. No., Position, Title, Etc.

Engineer (Seal)

Signature Date

Reg. No., Position, Title, Etc.

(Seal)

SAS:bls/7055A/sp